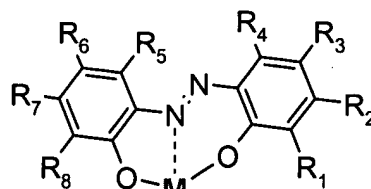
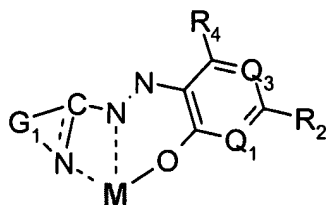


In the Claims:

1. (currently amended): An optical recording medium comprising a substrate, a reflecting layer and a recording layer, wherein the recording layer comprises a compound of formula $[L_1M^{r-4}L_2]_o[A^{m-}]_p[Z^{n+}]_q$ (I), $[L_1M^{r-3}L_3]_o[A^{m-}]_p[Z^{n+}]_q$ (II) or $[L_3M^{r-2}L_4]_o[A^{m-}]_p[Z^{n+}]_q$ (III), which compound of formula (I), (II) or (III) may also be in a mesomeric or tautomeric form, wherein

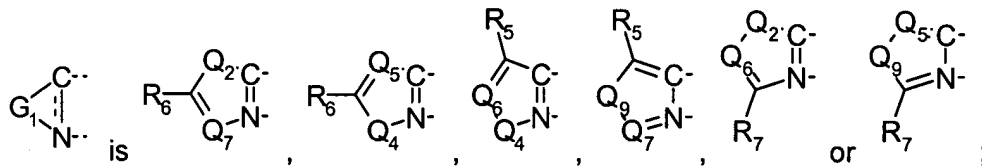


L_1 and L_2 are each independently of the other , and

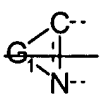


L_3 and L_4 are each independently of the other ,

M indicating the position of M^{r-4} , M^{r-3} or M^{r-2} in (I), (II) or (III), respectively;



Q_1 is CR_1 or N, Q_2 is O, S, NR_{10} or $Q_5=Q_8$, Q_3 is CR_3 or N, Q_4 is O, S, NR_{10} or $Q_7=Q_8$, Q_5 is CR_5 or N, Q_6 is CR_6 or N, Q_7 is CR_7 or N, Q_8 is CR_8 or N, and Q_9 is O, S, NR_{10} or $Q_6=Q_8$, preferably either Q_4 is CR_4 and Q_3 is CR_3 or Q_4 and Q_3 are both N, and/or Q_8 in $Q_5=Q_8$, $Q_6=Q_8$ or $Q_7=Q_8$ is in the

β -position relative to the nitrogen atom of , and in the case of tautomers Q_1 may also be NR_1 and/or Q_3 may also be NR_3 ;

R_1 , R_3 , R_4 , R_5 , R_6 , R_7 and R_8 are each independently of the others H, halogen, OR_9 , SR_9 , $NR_{10}R_{15}$, $NR_{10}COR_{11}$, $NR_{10}COOR_9$, $NR_{10}CONR_{12}R_{13}$, $NR_{10}CN$, $OSiR_{10}R_{11}R_{14}$, COR_{10} , $CR_{10}OR_{11}OR_{14}$, $NR_9R_{12}R_{13}^+$, NO_2 , CN , CO_2^- , $COOR_9$, SO_3^- , $CONR_{12}R_{13}$, SO_2R_{10} , $SO_2NR_{12}R_{13}$, SO_3R_9 , PO_3^- , $PO(OR_{10})(OR_{11})$; C_1 - C_{12} alkyl, C_2 - C_{12} alkenyl, C_2 - C_{12} alkynyl, C_3 - C_{12} cycloalkyl, C_3 - C_{12} cycloalkenyl or

C₃-C₁₂heterocycloalkyl each unsubstituted or mono- or poly-substituted by halogen, OR₉, SR₉, NR₁₀R₁₅, NR₁₀COR₁₁, NR₁₀COOR₉, NR₁₀CONR₁₂R₁₃, NR₁₀CN, OSiR₁₀R₁₁R₁₄, COR₁₀, CR₁₀OR₁₁OR₁₄, NR₉R₁₂R₁₃⁺, NO₂, CN, CO₂⁻, COOR₉, SO₃⁻, CONR₁₂R₁₃, SO₂R₁₀, SO₂NR₁₂R₁₃ and/or SO₃R₉; or C₇-C₁₂aralkyl, C₆-C₁₀aryl or C₅-C₉heteroaryl each unsubstituted or mono- or poly-substituted by R₁₀, halogen, OR₉, SR₉, NR₁₀R₁₅, NR₁₀COR₁₁, NR₁₀COOR₉, NR₁₀CONR₁₂R₁₃, NR₁₀CN, OSiR₁₀R₁₁R₁₄, COR₁₀, CR₁₀OR₁₁OR₁₄, NR₉R₁₂R₁₃⁺, NO₂, CN, CO₂⁻, COOR₉, SO₃⁻, CONR₁₂R₁₃, SO₂R₁₀, SO₂NR₁₂R₁₃, SO₃R₉, PO₃⁻, PO(OR₁₀)(OR₁₁), SiR₁₀R₁₁R₁₄ and/or SiOR₁₀OR₁₁OR₁₄;

R₂ is OR₉, SR₉, NR₁₀R₁₅, NR₁₀COR₁₁, NR₁₀COOR₉, NR₁₀CONR₁₂R₁₃ or NR₁₀CN;

each R₉, independently of any other R₉, is R₁₅, COR₁₅, COOR₁₅, CONR₁₂R₁₃, CN or a negative charge, preferably H or a negative charge;

R₁₀, R₁₁ and R₁₄ are each independently of the others hydrogen, C₁-C₁₂alkyl, C₂-C₁₂alkenyl, C₂-C₁₂alkynyl, [C₂-C₈alkylene-O-]_k-R₁₆, [C₂-C₈alkylene-NR₁₇]_k-R₁₆ or C₇-C₁₂aralkyl, it being possible for R₁₀ in NR₁₀R₁₅, NR₁₀COR₁₁, NR₁₀COOR₉, NR₁₀CONR₁₂R₁₃ or NR₁₀CN additionally to be a delocalisable negative charge;

R₁₂, R₁₃ and R₁₅ are each independently of the others H; C₁-C₁₂alkyl, C₂-C₁₂alkenyl, C₂-C₁₂alkynyl, C₃-C₁₂cycloalkyl, C₃-C₁₂cycloalkenyl or C₃-C₁₂heterocycloalkyl each unsubstituted or mono- or poly-substituted by halogen, OR₁₀, SR₁₀, NR₁₀COR₁₁, NR₁₀COOR₁₁, NR₁₀CONR₁₁R₁₄, OSiR₁₀R₁₁R₁₄, COR₁₀, CR₁₀OR₁₁OR₁₄, NR₁₀R₁₁R₁₄⁺, NO₂, CN, CO₂⁻, COOR₁₀, SO₃⁻, CONR₁₁R₁₄, SO₂NR₁₁R₁₄, SO₂R₁₀, NR₁₁R₁₄ and/or SO₃R₁₀; or C₇-C₁₂aralkyl, C₆-C₁₂aryl or C₅-C₉heteroaryl each unsubstituted or mono- or poly-substituted by R₁₀, halogen, OR₁₀, SR₁₀, NR₁₀COR₁₁, NR₁₀COOR₁₁, NR₁₀CONR₁₁R₁₄, OSiR₁₀R₁₁R₁₄, COR₁₀, CR₁₀OR₁₁OR₁₄, NR₁₀R₁₁R₁₄⁺, NO₂, CN, CO₂⁻, COOR₁₄, SO₃⁻, CONR₁₁R₁₄, SO₂R₁₀, SO₂NR₁₁R₁₄, SO₃R₁₀, PO₃⁻, PO(OR₁₀)(OR₁₁), NR₁₁R₁₄, SiR₁₀R₁₁R₁₄ and/or SiOR₁₀OR₁₁OR₁₄; or NR₁₂R₁₃, NR₁₁R₁₄ or NR₁₀R₁₅ is a five- or six-membered heterocycle which may contain a further N or O atom and which can be mono- or poly-substituted by C₁-C₈alkyl;

R₁₆ and R₁₇ are each independently of the other mono- or poly-substituted C₁-C₁₂alkyl, C₂-C₁₂alkenyl, C₂-C₁₂alkynyl, C₃-C₁₂cycloalkyl, C₃-C₁₂cycloalkenyl, C₃-C₁₂heterocycloalkyl, C₇-C₁₂aralkyl, C₆-C₁₀aryl or C₅-C₉heteroaryl;

M^r is a transition metal cation having r positive charges;

A^{m-} is an inorganic, organic or organometallic anion, or a mixture thereof;

Z^{n+} is a proton, a metal, ammonium or phosphonium cation, a positively charged organic or organometallic chromophore, or a mixture thereof;

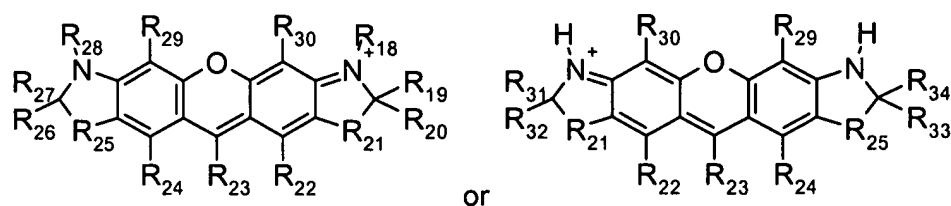
it being possible once or more times radicals of the same or different ligands L_1 , L_2 , L_3 and/or L_4 , each selected from the group consisting of R_1 , R_2 , R_3 , R_4 , R_5 , R_6 , R_7 , R_8 , R_9 , R_{10} , R_{11} , R_{12} , R_{14} , R_{15} and R_{16} , to be bonded to one another in pairs by way of a direct bond or an -O-, -S- or -N(R_{17})- bridge, and/or for from 0 to p anions A^{m-} and/or from 0 to q cations Z^{n+} each to be bonded to any radical R_1 , R_2 , R_3 , R_4 , R_5 , R_6 , R_7 , R_8 , R_9 , R_{10} , R_{11} , R_{12} , R_{13} , R_{14} , R_{15} , R_{16} or R_{17} of the same or different ligands L_1 , L_2 , L_3 and/or L_4 or to M' by way of a direct bond or an -O-, -S- or -N(R_{17})- bridge;

k is an integer from 1 to 6;

m, n and r are each independently of the others an integer from 1 to 4; ~~preferably m and n are 1 or 2~~ and r is 2 or 3; o is a number from 1 to 4; and

[[o,]] p and q are each a number from 0 to 4, the ratio of o, p and q to one another, according to the charge of the associated sub-structures, being such that in formula (I), (II) or (III) there is no resulting excess positive or negative charge;

and with the further proviso that when R_1 , R_3 , R_4 , R_5 , R_7 and R_8 are all H, R_2 is OH, R_6 is NO_2 , M is Co and r is 3, $[Z^{n+}]_q$ does not have the formula



wherein R_{18} and R_{28} are each independently of the other hydrogen; C_1 - C_{24} alkyl, C_2 - C_{24} alkenyl, C_2 - C_{24} alkynyl, C_3 - C_{24} cycloalkyl, C_3 - C_{24} cycloalkenyl or C_3 - C_{12} heterocycloalkyl each unsubstituted or mono- or polysubstituted by halogen, NO_2 , CN, $NR_{35}R_{36}$, $NR_{35}R_{36}R_{37}^+$, $NR_{35}COR_{36}$, $NR_{35}CONR_{35}R_{36}$, OR_{35} , SR_{35} , COO^- , $COOH$, $COOR_{35}$, CHO , $CR_{37}OR_{35}OR_{36}$, COR_{35} , SO_2R_{35} , SO_3^- , SO_3H , SO_3R_{35} or

OSiR₃₇R₃₈R₃₉; or C₇-C₁₈aralkyl, C₆-C₁₄aryl or C₄-C₁₂heteroaryl each unsubstituted or mono- or poly-substituted by halogen, NO₂, CN, NR₃₅R₃₆, NR₃₅R₃₆R₃₇⁺, NR₃₅COR₃₆, NR₃₇CONR₃₅R₃₆, R₃₅, OR₃₅, SR₃₅, CHO, CR₃₇OR₃₅OR₃₆, COR₃₅, SO₂R₃₅, SO₃⁻, SO₃R₃₅, SO₂NR₃₅R₃₆, COO⁻, COOR₃₅, CONR₃₅R₃₆, PO₃⁻, PO(OR₃₅)(OR₃₆), SiR₃₇R₃₈R₃₉, OSiR₃₇R₃₈R₃₉ or SiOR₃₇OR₃₈OR₃₉; but R₁₈ and R₂₈ are not simultaneously hydrogen;

R₁₉, R₂₀, R₂₆ and R₂₇ are each independently of the others C₁-C₁₂alkyl unsubstituted or mono- or poly-substituted by halogen, OR₃₇, SR₃₇, NO₂, CN, NR₄₀R₄₁, COO⁻, COOH, COOR₃₇, SO₃⁻, SO₃H or SO₃R₃₇,

it being possible for R₁₉ and R₂₀ and/or R₂₆ and R₂₇ and/or R₃₁ and R₃₂ and/or R₃₃ and R₃₄ to be so bonded to one another in pairs by way of a direct bond or an -O-, -S- or -NR₄₂- bridge that together they form a 5- to 12-membered ring;

R₂₁ and R₂₅ are each independently of the other C₁-C₃alkylene or C₁-C₃alkenylene each unsubstituted or mono- or poly-substituted by halogen, R₄₂, OR₄₂, SR₄₂, NO₂, CN, NR₄₃R₄₄, COO⁻, COOH, COOR₄₂, SO₃⁻, SO₃H or SO₃R₄₂;

R₂₂, R₂₄, R₂₉ and R₃₀ are each independently of the others hydrogen, halogen, OR₄₅, SR₄₅, NO₂, NR₄₅R₄₆; or C₁-C₂₄alkyl, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₃-C₂₄cycloalkyl, C₃-C₂₄cycloalkenyl, C₃-C₁₂heterocycloalkyl or C₇-C₁₈aralkyl each unsubstituted or mono- or poly-substituted by halogen, OR₄₅, SR₄₅, NO₂, CN or NR₄₅R₄₆;

R₂₃ is hydrogen; (CH₂)_kCOO⁻, (CH₂)_kCOOR₄₇, C₁-C₂₄alkyl, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₃-C₂₄cycloalkyl or C₃-C₂₄cycloalkenyl each unsubstituted or mono- or poly-substituted by halogen, NR₄₇R₄₈ or OR₄₈; or C₇-C₁₈aralkyl, C₆-C₁₄aryl or C₅-C₁₃heteroaryl each unsubstituted or mono- or poly-substituted by halogen, NO₂, CN, NR₄₇R₄₈, SO₃⁻, SO₃R₄₇, SO₂NR₄₇R₄₈, COO⁻, (CH₂)_kOR₄₇, (CH₂)_kOCOR₄₇, COOR₄₇, CONR₄₇R₄₈, OR₄₇, SR₄₇, PO₃⁻, PO(OR₄₇)(OR₄₈) or SiR₃₇R₃₈R₃₉;

R₃₁, R₃₂, R₃₃ and R₃₄ are each independently of the others C₁-C₁₂alkyl unsubstituted or mono- or poly-substituted by halogen, OR₃₅, SR₃₅, NO₂, CN, NR₄₀R₄₁, COOR₃₇, SO₃⁻, SO₃H or SO₃R₃₅;

R₃₅, R₃₆, R₄₀, R₄₁, R₄₂, R₄₃, R₄₄, R₄₅, R₄₆, R₄₇ and R₄₈ are each independently of the others hydrogen; C₁-C₂₄alkyl, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₃-C₂₄cycloalkyl, C₃-C₂₄cycloalkenyl or

C₃-C₁₂heterocycloalkyl each unsubstituted or mono- or poly-substituted by halogen, NO₂, CN, NR₃₇R₃₈, NR₃₇R₃₈R₃₉⁺, NR₃₇COR₃₈, NR₃₇CONR₃₈R₃₉, OR₃₇, SR₃₇, COO⁻, COOH, COOR₃₇, CHO, CR₃₇OR₃₈OR₃₉, COR₃₇, SO₂R₃₇, SO₃⁻, SO₃H, SO₃R₃₇ or OSiR₃₇R₃₈R₃₉; or C₇-C₁₈aralkyl, C₆-C₁₄aryl or C₅-C₁₃heteroaryl each unsubstituted or mono- or poly-substituted by halogen, NO₂, CN, NR₃₇R₃₈, NR₃₇R₃₈R₃₉⁺, NR₃₇COR₃₈, NR₃₇CONR₃₈R₃₉, R₃₇, OR₃₇, SR₃₇, CHO, CR₃₇OR₃₈OR₃₉, COR₃₇, SO₂R₃₇, SO₃⁻, SO₂NR₃₇R₃₈, COO⁻, COOR₃₉, CONR₃₇R₃₈, PO₃⁻, PO(OR₃₇)(OR₃₈), SiR₃₇R₃₈R₃₉, OSiR₃₇R₃₈R₃₉ or SiOR₃₇OR₃₈OR₃₉;

or NR₃₅R₃₆, NR₄₀R₄₁, NR₄₃R₄₄, NR₄₅R₄₆ or NR₄₇R₄₈ are a five- or six-membered heterocycle which may contain a further N or O atom and which can be mono- or poly-substituted by C₁-C₈alkyl;

R₃₇, R₃₈ and R₃₉ are each independently of the others hydrogen, C₁-C₂₀alkyl, C₂-C₂₀alkenyl, C₂-C₂₀alkynyl or C₇-C₁₈aralkyl, it being possible for R₃₇ and R₃₈ to be bonded to one another by way of a direct bond or an -O-, -S- or -NC₁-C₈alkyl- bridge so that together they form a five- or six-membered ring;

it being possible for from 1 to 4 radicals selected from the group consisting of R₁₈, R₁₉, R₂₁, R₂₂, R₂₃, R₂₄, R₂₅, R₂₆, R₂₈, R₂₉, R₃₀, R₃₅, R₃₆, R₃₇, R₃₈, R₃₉, R₄₀, R₄₁, R₄₂, R₄₃, R₄₄, R₄₅, R₄₆, R₄₇ and R₄₈ to be bonded to one another in pairs by way of a direct bond or an -O-, -S- or -N(G)- bridge or bonded singly to A^{m-} and/or Zⁿ⁺, wherein G is mono- or poly-substituted C₁-C₂₄alkyl, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₃-C₂₄cycloalkyl, C₃-C₂₄cycloalkenyl, C₃-C₁₂heterocycloalkyl, C₇-C₁₈aralkyl, C₆-C₁₄aryl or C₅-C₁₃heteroaryl.

2. (original): An optical recording medium according to claim 1, wherein R₂ and R₄ are hydroxy, O⁻, mercapto or S⁻ and R₆ or R₇ is nitro or cyano; Zⁿ⁺ is a xanthene; and/or R₁₀ is methyl, ethyl, n-propyl, isopropyl, n-butyl, 2-butyl, isobutyl, tert-butyl, 3-pentyl, n-amyl, tert-amyl, neopentyl, 2,2-dimethyl-but-4-yl, 2,2,4-trimethyl-pent-5-yl, cyclopropyl, cyclopropylmethyl, cyclobutyl, cyclobutylmethyl, cyclopentyl, cyclopentylmethyl, cyclohexyl, cyclohexylmethyl, cyclohex-4-enyl-methyl, 5-methyl-cyclohex-4-enyl-methyl or 2-ethyl-hexyl, each unsubstituted or mono- or poly-substituted by fluorine.

3. (currently amended): An optical recording medium according to claim 1 or 2, wherein M⁺ is Co²⁺, Co³⁺, Cu⁺, Cu²⁺, Zn²⁺, Cr³⁺, Ni²⁺, Fe²⁺, Fe³⁺, Al³⁺, Ce²⁺, Ce³⁺, Mn²⁺, Mn³⁺, Si⁴⁺, Ti⁴⁺, V³⁺, V⁵⁺ or Zr⁴⁺.

4. **(currently amended):** An optical recording medium according to claim 1, ~~2 or 3~~, additionally comprising a cyanine or xanthene cation, ~~preferably a benzoindocarbocyanine or rhodamine cation.~~

5. **(currently amended):** A method for the optical recording, storage or playback of information, wherein a recording medium according to claim 1, ~~2, 3 or 4~~ is used.

6. **(currently amended):** A method according to claim 5, wherein the recording and/or the playback take place in a wavelength range of from 600 to 700 nm, ~~preferably from 630 to 690 nm, more especially from 640 to 680 nm, very especially from 650 to 670 nm, particularly at 658±5 nm.~~


7. **(currently amended):** A method of producing an optical recording medium, wherein a solution of a compound of formula (I), (II) or (III) according to claim 1, ~~2 or 3~~ in an organic solvent is applied to a substrate having depressions.

8. **(currently amended):** A method for the optical recording, storage or playback of information, wherein a recording medium according to claim ~~1, 2 or 3~~ is used.

9. **(original):** A method according to claim 8, wherein the recording and/or the playback take place in a wavelength range of from 600 to 700 nm.

10. **(currently amended):** A compound of formula (II) or (III) according to claim 1, ~~2 or 3~~ or a tautomeric or mesomeric form thereof wherein R_2 is O^- , S^- , N^-COR_{11} , N^-COOR_9 , $N^-CONR_{12}R_{13}$ or N^-CN .

11. **(new):** An optical recording medium according to claim 1, wherein either Q_1 is CR_1 and Q_3 is CR_3 or Q_1 and Q_3 are both N, and/or Q_8 in $Q_5=Q_8$, $Q_6=Q_8$ or $Q_7=Q_8$ is in the β -position relative to the

nitrogen atom of 

12. **(new):** An optical recording medium according to claim 2, wherein M^{+} is Co^{2+} , Co^{3+} , Cu^{+} , Cu^{2+} , Zn^{2+} , Cr^{3+} , Ni^{2+} , Fe^{2+} , Fe^{3+} , Al^{3+} , Ce^{2+} , Ce^{3+} , Mn^{2+} , Mn^{3+} , Si^{4+} , Ti^{4+} , V^{3+} , V^{5+} or Zr^{4+} .

- 13. (new):** An optical recording medium according to claim 4, wherein the cyanine or xanthene cation is a benzoindocarbocyanine or rhodamine cation.
- 14. (new):** An optical recording medium according to claim 2 additionally comprising a cyanine or xanthene cation.
- 15. (new):** An optical recording medium according to claim 14, wherein the cyanine or xanthene cation is a benzoindocarbocyanine or rhodamine cation.
- 16. (new):** A method according to claim 5, wherein the recording and/or the playback take place in a wavelength range of from 630 to 690 nm.
- 17. (new):** A method according to claim 5, wherein the recording and/or the playback take place in a wavelength range of from 650 to 670 nm.
- 18. (new):** A method for the optical recording, storage or playback of information, wherein a recording medium according to claim 2 is used.
- 19. (new):** A method according to claim 18, wherein the recording and/or the playback take place in a wavelength range of from 600 to 700 nm.